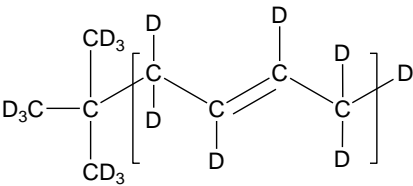


Sample Name: Deuterated Poly(1,4-butadiene-d6), end-groups are Completely deuterated

Sample #: P41851-dBd

Structure:



Composition:

Mn x 10 ³	PDI
78.5	1.01

Synthesis Procedure:

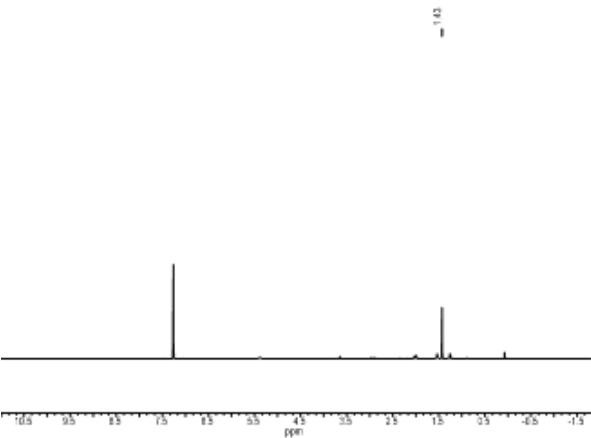
Polymer was synthesized by living anionic polymerization of d6 butadiene monomer using d9 tert.butyl- lithium initiator.

Characterization:

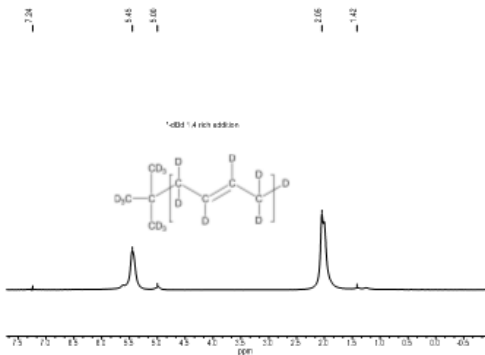
The product was characterized by size exclusion chromatography (SEC), ¹HNMR and DNMR.

¹HNMR spectrum of the polymer:

Protonic analog impurity < 1%

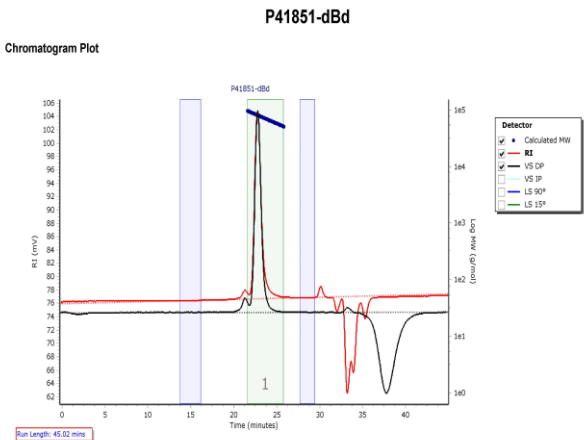


D NMR spectrum of the polymer:



SEC elugram of the polymer:

Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	80598	78636	79121	79555	79949	79506	1.006

Processing Parameters
Method: Last modified by Polymer Source at 3:21:24 PM on February-19-19
Concentration Detector Used in Analysis: RI
Injection volume (μL): 100.00
Flow rate (mL/min): 1.00
Concentration options: Calculate Sample Concentration from Entered Sample Properties
Entered dn/dc (mL/g): 0.125
Entered Ext Coeff ((mg/mL)⁻¹cm⁻¹): 1.000